

ISIS-II PL/M-86 V2.0 COMPILATION OF MODULE SYMB

OBJECT MODULE PLACED IN SYMB.OBJ

COMPILER INVOKED BY: :FO: SYMB.PLN DEBUG OPTIMIZE(2) DATE(FEBRUARY 2, 1982) XREF

1

```
$title ('SYMBOL TABLE MODULE')
```

```
symb:
```

```
do;
```

```
/*
```

```
modified 3/25/81 R. Silberstein
```

```
modified 3/28/81 R. Silberstein
```

```
modified 3/30/81 R. Silberstein
```

```
modified 4/15/81 R. Silberstein
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modified 4/16/81 R. Silberstein
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```
modified 4/20/81 R. Silberstein
```

```
modified 6/16/81 R. Silberstein
```

```
modified 7/24/81 R. Silberstein
```

```
*/
```

```
/*
```

This is the module to perform all symbol table handling. There are 2 different kinds of symbols, codemacro mnemonics and user defined symbols.

The codemacro symbols are entered into the symbol table through the hash vector 'CODEMACROENTRY', whereas the user symbols uses the hash vector 'SYMBENTRY'. Each symbol enters the symbol table through hash vector element 'i', where i is the hash function of the symbol. The function is defined as:

$$H(S) = (C_1 + C_2 + \dots + C_i + \dots + C_n) \bmod 64$$

where C_i is the ascii code of the i 'th symbolcharacter.

```
*/
```

```
$include (:f1:macro.lit)
```

```
= $nolist
```

```
$include (:f1:equals.lit)
```

```
= $nolist
```

```
$include (:f1:struc.lit)
```

```
= $nolist
```

```
$INCLUDE (:f1:DEV.LIT)
```

```
= $nolist
```

```
$include (:f1:anem.ext)
```

```
= $nolist
```

```
$include (:f1:subr1.ext)
```

```
= $nolist
```

```
$include (:f1:subr2.ext)
```

```
= $nolist
```

```
$include (:f1:files.ext)
```

```
= $nolist
```

CP/M-86 V.1.1 (Vol. IV)

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SER. # CB1-162

```
    $INCLUDE (:F1:TEXT.EXT)
=   $nolist
    $INCLUDE (:F1:IO.EXT)
=   $nolist
152 1  DECLARE SYMBOLDEVICE BYTE EXTERNAL;
```

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SER. # _____

```
reject
```

```
/* Global variables: */
```

```
153 1  dcl
      codemacroentry (64) addr      /* opcode mnemonic entry */
      data(
        .push,.repz,0,.aaa,0,.movs,.pushf,.MOVSB,
        .adc,.add,.CMPSW,.ja,.dec,.loopne,0,.repnz,
        .jae,.jg,.clc,.iand,.loopz,.aas,.jl,.in,
        .cli,.jo,.inc,.lahf,.icall,.jne,.cwd,.jnbe,
        .cmp,.ior,.callf,.div,.les,0,.sar,.jmp,
        .hlt,.lock,.xchg,.ret,.idiv,.jmpf,.mul,.pop,
        .sti,.inot,.mov,.cmps,.iret,.popf,0,.imul,
        .out,.xlat,.jms,0,0,0,0,.loope),

      symbentry (64) addr,          /* user symbol entry */
      symbtab(1) byte at (.memory), /* symbol table */
      freep      addr public,      /* adr. of next free symb. tab byte */
      endof$ symbtab      addr PUBLIC, /* last symbol table byte */
      symbolheadlg      byte,      /* length of head for each symbol */
      attributelg      byte,      /* length of symbol attributes */
      codemacheadlg      byte,      /* length of codemacrohead */
      overflowlimit      addr,      /* used to test overflow */
      col              byte;        /* current column position */

154 1  DECLARE
      ALPHAROOT ADDRESS,          /* ROOT OF ALPHABETIZED SYMBOL LIST */
      ALPHASYMPTR ADDRESS,        /* POINTER TO CURRENT SYMBOL IN ALPHA LIST */
      ALPHASYN BASED ALPHASYMPTR SYMBOLHEAD, /* SYMBOL TEMPLATE */
      SORTSYMPTR ADDRESS,        /* POINTER TO SYMBOL BEING INSERTED */
      SORTSYM BASED SORTSYMPTR SYMBOLHEAD; /* SYMBOL TEMPLATE */
```

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```

$reject
/***** SUBROUTINES *****/

155 1  outbyt: proc (ch); /* print one byte to symbol file */
156 2      dcl ch byte;
157 2      if ch=cr then$do /* update column position */
159 3          col=0;
160 3      else$do
162 3          if ch <> lf then col=col+1;
          end$if;
165 2      call outsymbolbyte(ch);
166 2  end outbyt;

167 1  hash: proc (lg,pt) byte;
168 2      dcl (lg,i,h) byte,pt addr,asc based pt (1) byte;
169 2      i=0ffh; h=0;
171 2      do while (i:=i+1) < lg;
172 3          h=h+asc(i);
173 3      end$while;
174 2      return h and 3fh;
175 2  end hash;

/*      search for either a user symbol or a codemacro      */

176 1  search: proc(lg,pt1,pt2,pt3,headlg) byte;
177 2      dcl (lg,headlg) byte,(pt1,pt2,pt3) addr,
          ascii based pt1(1) byte,symbptr based pt2 addr,
          entrytab based pt3 (64) addr,
          currentpt addr,next based currentpt addr,
          symbhead based currentpt symbolhead;

178 2      currentpt=entrytab(hash(lg,.ascii(0)));
179 2      do while currentpt <> 0;
180 3          if lg = symbhead.slength then$do
182 4              if equal(lg,currentpt+headlg,.ascii(0)) then$do
184 5                  symbptr=currentpt+3;
185 5                  return true;
186 5              end$if;
          end$if;
188 3          currentpt=next;
189 3      end$while;
190 2      return false;
191 2  end search;

/* enter either new symbol or new codemacro */
192 1  new: proc(lg,pt1,pt2,headlg,pt3) byte;
193 2      dcl (lg,headlg) byte,(pt1,pt2,pt3) addr,
          ascii based pt1 (1) byte,entrytab based pt2 (64) addr,
          symptr based pt3 addr,
          current addr,currentcontent based current addr,
          symb based freept symbolhead;

194 2      if freept > overflowlimit - (lg+headlg) then$DO
196 3          CALL OUTTEXT (.SYMBFULLERRTEXT);
197 3          CALL SYSTEM$RESET;
198 3      END$IF;
199 2      current=.entrytab(hash(lg,.ascii(0)));
200 2      SYMB.NEXT = CURRENTCONTENT;

```

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```
201 2    currentcontent=freeptr;
202 2    symptr=freeptr+3;
203 2    symb.length=lg;
204 2    call copy(lg,,ascii(0),freeptr+headlg);
205 2    freeptr=freeptr+headlg+lg;
206 2    return true;
207 2    end new;

208 1    newsymbol: proc (lg,asciiptr,returnptr) byte public;
209 2        dcl lg byte,(asciiptr,returnptr) addr;
210 2        return new(lg,asciiptr,,symbentry,symbolheadlg,returnptr);
211 2    end newsymbol;

212 1    newmacro: proc (lg,asciiptr,codemacdefptr) byte public;
213 2        dcl lg byte,(asciiptr,codemacdefptr,retpt) addr,
            cmaddr based retpt addr;
214 2        if new(lg,asciiptr,,codemacroentry,codemacheadlg,,retpt) then$do
216 3            cmaddr=codemacdefptr;
217 3            return true;
218 3        end$if;
219 2        return false;
220 2    end newmacro;

221 1    findsymbol: proc(lg,stradr,result) byte public;
222 2        dcl lg byte,(stradr,result) addr;
223 2        return search(lg,stradr,result,,symbentry(0),symbolheadlg);
224 2    end findsymbol;

225 1    getattributes: proc(symbadr,dest) public;
226 2        dcl (symbadr,dest) addr,symb based symbadr symbolstruc;
227 2        call copy(attributelg,,symb.length,dest);
228 2    end getattributes;

229 1    enterattributes: proc(symbadr,source) public;
230 2        dcl (symbadr,source) addr,symb based symbadr symbolstruc;
231 2        call copy(attributelg,source,,symb.length);
232 2    end enterattributes;

233 1    findcodemacro: proc(lg,stradr,result) byte public;
234 2        dcl lg byte,(stradr,result) addr;
235 2        return search(lg,stradr,result,,codemacroentry(0),codemacheadlg);
236 2    end findcodemacro;

237 1    new$cm$body: PROC (lg,ptr) byte public;
238 2        dcl lg byte,ptr addr;
239 2        if freeptr > overflowlimit-lg then return false;
241 2        call copy (lg,ptr,freeptr);
242 2        freeptr=freeptr+lg;
243 2        return true;
244 2    end$proc new$cm$body;

245 1    new$cm$name: PROC (lg,asciiptr,returnptr) byte public;
246 2        dcl lg byte,(asciiptr,returnptr) addr;
247 2        return new(lg,asciiptr,,codemacroentry,5,returnptr);
248 2    end$proc new$cm$name;

249 1    SORTSYMBOLS: PROCEDURE;
```

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```

250 2  DECLARE
      CURRENT ADDRESS,
      CURRENTCONTENT BASED CURRENT ADDRESS,
      NEXT ADDRESS,
      I BYTE;

251 2  ALPHALOCFOUND: PROCEDURE BYTE;
252 3  DECLARE
      SORTNAMEPTR ADDRESS,
      SORTNAME BASED SORTNAMEPTR (1) BYTE,
      ALPHANAMEPTR ADDRESS,
      ALPHANAME BASED ALPHANAMEPTR (1) BYTE,
      I BYTE;

253 3  SORTNAMEPTR = SORTSYMPTR + SYMBOLHEADLG;
254 3  ALPHANAMEPTR = ALPHASYMPTR + SYMBOLHEADLG;
255 3  DO I = 1 TO SORTSYM.SLENGTH;
256 4  IF I > ALPHASYM.SLENGTH THEN RETURN FALSE;
258 4  IF SORTNAME (I-1) > ALPHANAME (I-1) THEN RETURN FALSE;
260 4  IF SORTNAME (I-1) < ALPHANAME (I-1) THEN RETURN TRUE;
262 4  END;
263 3  RETURN TRUE;
264 3  END ALPHALOCFOUND;

265 2  FIXCHAIN: PROCEDURE;
266 3  SORTSYM.NEXT = ALPHASYMPTR;
267 3  CURRENTCONTENT = .SORTSYM;
268 3  END FIXCHAIN;

269 2  INSERTALPHA: PROCEDURE;
270 3  CURRENT, ALPHASYMPTR = .ALPHAROOT;
271 3  DO WHILE (ALPHASYMPTR := ALPHASYM.NEXT) <> 0;
272 4  IF ALPHALOCFOUND THEN$DO
274 5  CALL FIXCHAIN;
275 5  RETURN;
276 5  END$IF;
277 4  CURRENT = ALPHASYMPTR;
278 4  END$WHILE;
279 3  CALL FIXCHAIN;
280 3  END INSERTALPHA;

281 2  ALPHAROOT = 0;
282 2  DO I = 0 TO LAST (SYMBENTRY);
283 3  SORTSYMPTR = SYMBENTRY (I);
284 3  DO WHILE SORTSYMPTR <> 0;
285 4  NEXT = SORTSYM.NEXT;
286 4  CALL INSERTALPHA;
287 4  SORTSYMPTR = NEXT;
288 4  END$WHILE;
289 3  END;
290 2  END SORTSYMBOLS;

291 1  outcrLf: proc;
292 2  call outbyt(cr);
293 2  call outbyt(lf);
294 2  end outcrLf;

```

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```

295 1  printsymbols: proc(typ); /* print all symbols to file */
296 2  dcl (typ,i) byte;

297 2  advancetonext: proc; /* advance to next column (16,32,48,64) */
298 3  dcl (x,y) byte;
299 3  x=col/16;
300 3  y=16-(col mod 16);
301 3  if x >= 4 then do
303 4  c ll outcrLf;
304 4  else do
306 4  IF SYMBOL$DEVICE = PRINTER THEN DO
308 5  DO WHILE (Y := Y - 1) <> 255;
309 6  CALL OUTBYT (SPACE);
310 6  END$WHILE;
311 5  ELSE DO
313 5  col=col+y;
314 5  call outsymbolbyte(tab);
315 5  if y > 8 then call outsymbolbyte(tab);
318 4  END$IF;
319 3  end$if;
319 3  end advancetonext;

320 2  OUTBYTES: proc(lg,p);
321 3  dcl lg byte,p addr,asc based p byte;
322 3  DO WHILE (LG := LG - 1) <> OFFH;
323 4  call outbyt(asc);
324 4  P = P + 1;
325 4  end$while;
326 3  end OUTBYTES;

327 2  printsymb: proc(p); /* print single symbol */
328 3  dcl p addr,x based p symbolhead,
329 3  a addr,ascii based a (1) byte,help(4) byte;
330 3  a=p+symbolheadlg;
331 3  if X.STYPE=typ then do
332 4  if col+x.slength+5 > 79 then call outcrLf;
334 4  call hex2out(x.offset,,help(0));
335 4  CALL OUTBYTES (4, .HELP);
336 4  call outbyt(space);
337 4  CALL OUTBYTES (X.SLENGTH, .ASCII);
338 4  call advancetonext;
339 4  end$if;
340 3  end printsymb;

/* print symbols main program */

341 2  col=0;
342 2  CALL OUTBYTES (4, .('0000')); /* print header */
343 2  call outbyt(space);
344 2  if typ=lab then call OUTBYTES(6,.(('LABELS')));
345 2  if typ=variable then call OUTBYTES(9,.(('VARIABLES')));
346 2  if typ=number then call OUTBYTES(7,.(('NUMBERS')));
350 2  call outcrLf;
351 2  ALPHASYMPTR = ALPHAROOT;
352 2  DO WHILE ALPHASYMPTR <> 0;
353 3  CALL PRINTSYMB (ALPHASYMPTR);
354 3  ALPHASYMPTR = ALPHASYM.NEXT;

```

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```
355 3      END;
356 2      if col <> 0 then call outcrlf;

358 2      end printsymbols;

359 1      symbterminate: proc public; /* print symbol table */
360 2          IF SYMBOLDEVICE = NULL THEN RETURN; /* no need to sort, etc. */
362 2          CALL SORTSYMBOLS;
363 2          CALL OUTSYMBOLBYTE (FORMFED);
364 2          call printsymbols(variable); /* variables */
365 2          CALL OUTCRLF;
366 2          call printsymbols(number); /* numbers */
367 2          CALL OUTCRLF;
368 2          call printsymbols(lab); /* labels */
369 2      end symbterminate;

370 1      symbinit: proc public;
371 2          dcl i byte;
372 2          dcl symb symbolhead at (.i), codm codemacrohead at (.i);
373 2          end$of$symtab=(endbuf/256)*256-1;
374 2          freeptr=symtab(0);
375 2          CALL FILL (0, SIZE (SYMBENTRY), .SYMBENTRY);
376 2          symbolheadlg=symb.baseindex-symb.next+1;
377 2          attributelg=symbolheadlg-3;
378 2          codemacheadlg=.codm.defptr-.codm.next+2;
379 2          overflowlimit=end$of$symtab-symbolheadlg;
380 2      end symbinit;

381 1      end$module symb;
```

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CROSS-REFERENCE LISTING

DEFN ADDR SIZE NAME, ATTRIBUTES, AND REFERENCES

328	009CH	2	A.	WORD	328 329 337	
10	0000H	1	AAA.	BYTE EXTERNAL(2)		153
10	0000H	1	AAS.	BYTE EXTERNAL(18)		153
10	0000H	1	ADC.	BYTE EXTERNAL(6)		153
10	0000H	1	ADD.	BYTE EXTERNAL(7)		153
2			ADDR	LITERALLY	12 15 18 21 27 45 48 51 54 92 153	
					154 168 177 193 209 213 222 226 230 234 238 246 321 328	
					372	
297	03D9H	100	ADVANCETONEXT. . .	PROCEDURE STACK=0010H		338
251	0290H	114	ALPHALOCFOUND. . .	PROCEDURE BYTE STACK=0002H		272
252	0000H	1	ALPHANAHE.	BYTE BASED(ALPHANAHEPTR) ARRAY(1)		258 260
252	009BH	2	ALPHANAHEPTR . . .	WORD	252 254 258 260	
35	0000H		ALPHANUMERIC . . .	PROCEDURE BYTE EXTERNAL(63) STACK=0000H		
154	0086H	2	ALPHAROOT.	WORD	270 281 351	
154	0000H	12	ALPHASYM	STRUCTURE BASED(ALPHASYMPTR)		256 271 354
154	0088H	2	ALPHASYMPTR. . . .	WORD	154 254 256 266 270 271 277 351 352 353 354	
321	0000H	1	ASC.	BYTE BASED(P)		323
168	0000H	1	ASC.	BYTE BASED(PT) ARRAY(1)		172
328	0000H	1	ASCII.	BYTE BASED(A) ARRAY(1)		337
193	0000H	1	ASCII.	BYTE BASED(PT1) ARRAY(1)		199 204
177	0000H	1	ASCII.	BYTE BASED(PT1) ARRAY(1)		178 182
38	0000H		ASCIICHAR.	PROCEDURE BYTE EXTERNAL(64) STACK=0000H		
212	0006H	2	ASCIIPTR	WORD PARAMETER AUTOMATIC		213 214
245	0006H	2	ASCIIPTR	WORD PARAMETER AUTOMATIC		246 247
208	0006H	2	ASCIIPTR	WORD PARAMETER AUTOMATIC		209 210
96	0000H	1	ASH86TEXT.	BYTE ARRAY(1) EXTERNAL(94)		
153	009FH	1	ATTRIBUTELG. . . .	BYTE	227 231 377	
154	000BH	1	BASEINDEX.	BYTE MEMBER(ALPHASYM)		
154	000BH	1	BASEINDEX.	BYTE MEMBER(SORTSYM)		
193	000BH	1	BASEINDEX.	BYTE MEMBER(SYMB)		
372	000BH	1	BASEINDEX.	BYTE MEMBER(SYMB)		
226	000BH	1	BASEINDEX.	BYTE MEMBER(SYMB)		
323	000BH	1	BASEINDEX.	BYTE MEMBER(X)		
230	000BH	1	BASEINDEX.	BYTE MEMBER(SYMB)		
177	000BH	1	BASEINDEX.	BYTE MEMBER(SYMBHEAD)		
8			BASEREGBIT	LITERALLY		
8			BASEREGCOUNT . . .	LITERALLY		
8			BREGBIT.	LITERALLY		
8			BREGCOUNT.	LITERALLY		
4			BYT.	LITERALLY		
10	0000H	1	CALLF.	BYTE EXTERNAL(31)		153
59	0000H	1	CH	BYTE PARAMETER		60
32	0000H	1	CH	BYTE PARAMETER		33
26	0000H	1	CH	BYTE PARAMETER		27
38	0000H	1	CH	BYTE PARAMETER		39
29	0000H	1	CH	BYTE PARAMETER		30
155	0004H	1	CH	BYTE PARAMETER AUTOMATIC		156 157 162 165
41	0000H	1	CH	BYTE PARAMETER		42
35	0000H	1	CH	BYTE PARAMETER		36

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56	0000H	1	CH	BYTE PARAMETER	57
62	0000H	1	CH	BYTE PARAMETER	63
111	0000H	1	CHAR	BYTE PARAMETER	112
114	0000H	1	CHAR	BYTE PARAMETER	115
10	0000H	1	CLC.	BYTE EXTERNAL(15)	153
10	0000H	1	CLI.	BYTE EXTERNAL(21)	153
76	0000H	1	CLOSEERRTEXT . . .	BYTE ARRAY(1) EXTERNAL(100)	
130	0000H		CLOSEFILE.	PROCEDURE BYTE EXTERNAL(120) STACK=0000H	
85	0000H		CLOSEHEX	PROCEDURE EXTERNAL(83) STACK=0000H	
83	0000H		CLOSEINCLUDE . . .	PROCEDURE EXTERNAL(82) STACK=0000H	
87	0000H		CLOSEPRINT	PROCEDURE EXTERNAL(84) STACK=0000H	
79	0000H		CLOSESOURCE. . . .	PROCEDURE EXTERNAL(80) STACK=0000H	
87	0000H		CLOSESYMBOL. . . .	PROCEDURE EXTERNAL(85) STACK=0000H	
213	0000H	2	CMADDR	WORD BASED(RETPT)	216
10	0000H	1	CMP.	BYTE EXTERNAL(29)	153
10	0000H	1	CMPS	BYTE EXTERNAL(47)	153
10	0000H	1	CMPSW.	BYTE EXTERNAL(8)	153
3			CODE	LITERALLY	
153	00A0H	1	CODMACHEADLG. . .	BYTE	214 235 378
153	0000H	128	CODMACROENTRY . .	WORD ARRAY(64) DATA	214 235 247
8			CODMACROHEAD. . .	LITERALLY	372
372	00A0H	5	CODM	STRUCTURE AT	378
212	0004H	2	CUDMACDEFPT. . . .	WORD PARAMETER AUTOMATIC	213 216
153	00A1H	1	COL.	BYTE	159 163 299 300 313 332 341 356
9			CONSOLE.	LITERALLY	
117	0000H		CONSTAT.	PROCEDURE BYTE EXTERNAL(115) STACK=0000H	
17	0000H		COPY	PROCEDURE EXTERNAL(57) STACK=0000H	204 227 231 241
2			CR	LITERALLY	157 292
142	0000H		CREATEFILE	PROCEDURE BYTE EXTERNAL(124) STACK=0000H	
150	0000H		CRLF	PROCEDURE EXTERNAL(127) STACK=0000H	
250	0092H	2	CURRENT.	WORD	250 267 270 277
193	008EH	2	CURRENT.	WORD	193 199 200 201
193	0000H	2	CURRENTCONTENT . .	WORD BASED(CURRENT)	200 201
250	0000H	2	CURRENTCONTENT . .	WORD BASED(CURRENT)	267
177	008CH	2	CURRENTPT.	WORD	177 178 179 180 182 184 188
10	0000H	1	CWD.	BYTE EXTERNAL(27)	153
44	0000H	2	D.	WORD PARAMETER	45
47	0000H	2	D.	WORD PARAMETER	48
50	0000H	2	D.	WORD PARAMETER	51
53	0000H	2	D.	WORD PARAMETER	54
17	0000H	2	D.	WORD PARAMETER	18
2			DCL.	LITERALLY	
10	0000H	1	DEC.	BYTE EXTERNAL(10)	153
53	0000H		DECOU	PROCEDURE EXTERNAL(69) STACK=0000H	
372	0003H	2	DEFPTR	WORD MEMBER(CODM)	378
3			DELETEDSYMB. . . .	LITERALLY	
133	0000H		DELETEFILE	PROCEDURE EXTERNAL(121) STACK=0000H	
225	0004H	2	DEST	WORD PARAMETER AUTOMATIC	226 227
91	0000H	1	DEV.	BYTE PARAMETER	92
29	0000H		DIGIT.	PROCEDURE BYTE EXTERNAL(61) STACK=0000H	
121	0000H	1	DISKNUMBER	BYTE PARAMETER	122
96	0000H	1	DISKREADERRTEXT. .	BYTE ARRAY(1) EXTERNAL(97)	
76	0000H	1	DISKWRITEERRTXT. .	BYTE ARRAY(1) EXTERNAL(98)	
10	0000H	1	DIV.	BYTE EXTERNAL(32)	153
147	0000H	2	DMAADDRESS	WORD PARAMETER	148
3			DOUBLEDEFINED. . .	LITERALLY	
4			DWRD	LITERALLY	

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2		ELSEDO	LITERALLY	
106	0000H	2 ENDBUF	WORD EXTERNAL(110)	373
2		ENDCASE.	LITERALLY	
2		ENDDO.	LITERALLY	
2		ENDFOREVER	LITERALLY	
2		ENDIF.	LITERALLY	163 186 316
2		ENDMODULE.	LITERALLY	
2		ENDOFFILE.	LITERALLY	
153	0082H	2 ENDOFSYMTAB . . .	WORD PUBLIC	373 379
2		ENDPROC.	LITERALLY	
76	0000H	1 ENDTEXT.	BYTE ARRAY(1) EXTERNAL(92)	
2		ENDWHILE	LITERALLY	
229	01CCH	23 ENTERATTRIBUTES. .	PROCEDURE PUBLIC STACK=000EH	
177	0000H	128 ENTRYTAB	WORD BASED(PT3) ARRAY(64)	178
193	0000H	128 ENTRYTAB	WORD BASED(PT2) ARRAY(64)	199
44	0000H	EQUAL.	PROCEDURE BYTE EXTERNAL(66) STACK=0000H	182
3		ERROR.	LITERALLY	
2		FALSE.	LITERALLY	190 219 240 257 259
103	0000H	1 FCB.	BYTE ARRAY(1) EXTERNAL(107)	
104	0000H	1 FCB16.	BYTE ARRAY(1) EXTERNAL(108)	
136	0000H	2 FCBADDRESS	WORD PARAMETER	137
139	0000H	2 FCBADDRESS	WORD PARAMETER	140
142	0000H	2 FCBADDRESS	WORD PARAMETER	143
127	0000H	2 FCBADDRESS	WORD PARAMETER	128
130	0000H	2 FCBADDRESS	WORD PARAMETER	131
124	0000H	2 FCBADDRESS	WORD PARAMETER	125
133	0000H	2 FCBADDRESS	WORD PARAMETER	134
23	0000H	2 FCBADR	WORD PARAMETER	24
23	0000H	FILEABORT.	PROCEDURE EXTERNAL(59) STACK=0000H	
8		FILEISTRUCTURE . .	LITERALLY	
8		FILESSTRUCTURE . .	LITERALLY	
94	0000H	FILESETUP.	PROCEDURE BYTE EXTERNAL(87) STACK=0000H	
26	0000H	FILL	PROCEDURE EXTERNAL(60) STACK=0000H	375
91	0000H	2 FILNAM	WORD PARAMETER	92
91	0000H	2 FILTYP	WORD PARAMETER	92
233	01E3H	27 FINDCODEMACRO. . .	PROCEDURE BYTE PUBLIC STACK=001EH	
221	017AH	27 FINDSYMBOL	PROCEDURE BYTE PUBLIC STACK=001EH	
265	0302H	26 FIXCHAIN	PROCEDURE STACK=0002H	274 279
2		FOREVER.	LITERALLY	
2		FORMFEED	LITERALLY	363
153	0030H	2 FREPT	WORD PUBLIC	193 194 200 201 202 203 204 205 239 241 242 374
100	0000H	1 FUNC	BYTE PARAMETER	101
97	0000H	1 FUNC	BYTE PARAMETER	98
225	0185H	23 GETATTRIBUTES. . .	PROCEDURE PUBLIC STACK=000EH	
163	00A3H	1 H.	BYTE	170 172 174
167	0024H	50 HASH	PROCEDURE BYTE STACK=0006H	178 199
192	0006H	1 HEADLG	BYTE PARAMETER AUTOMATIC	193 194 204 205
176	0004H	1 HEADLG	BYTE PARAMETER AUTOMATIC	177 182
328	00A9H	4 HELP	BYTE ARRAY(4)	334 335
47	0000H	HEX1OUT.	PROCEDURE EXTERNAL(67) STACK=0000H	
50	0000H	HEX2OUT.	PROCEDURE EXTERNAL(68) STACK=0000H	334
10	0000H	1 HLT.	BYTE EXTERNAL(36)	153
252	00A5H	1 I.	BYTE	255 256 258 260
168	00A2H	1 I.	BYTE	169 171 172
296	00A6H	1 I.	BYTE	
250	00A4H	1 I.	BYTE	282 283

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371	00ADH	1	I.	BYTE	372		
10	0000H	1	IAND	BYTE EXTERNAL(16)		153	
10	0000H	1	ICALL.	BYTE EXTERNAL(25)		153	
3			IDENT.	LITERALLY			
10	0000H	1	IDIV	BYTE EXTERNAL(40)		153	
91	0000H		IFILESETUP	PROCEDURE EXTERNAL(86) STACK=0000H			
10	0000H	1	IMUL	BYTE EXTERNAL(50)		153	
10	0000H	1	IN	BYTE EXTERNAL(20)		153	
10	0000H	1	INC.	BYTE EXTERNAL(23)		153	
8			INDEXREGBIT. . . .	LITERALLY			
8			INDEXREGCOUNT. . .	LITERALLY			
97	0000H	2	INFO	WORD PARAMETER	98		
100	0000H	2	INFO	WORD PARAMETER	101		
67	0000H		INCLUDEBYTE. . . .	PROCEDURE BYTE EXTERNAL(74) STACK=0000H			
2			INIT	LITERALLY			
96	0000H	1	INITIALS	BYTE ARRAY(1) EXTERNAL(90)			
10	0000H	1	INOT	BYTE EXTERNAL(45)		153	
269	031CH	48	INSERTALPHA. . . .	PROCEDURE STACK=0006H	286		
65	0000H		INSOURCEBYTE . . .	PROCEDURE BYTE EXTERNAL(73) STACK=0000H			
145	0000H		INTEROGATEDISK. . .	PROCEDURE BYTE EXTERNAL(125) STACK=0000H			
10	0000H	1	IOR.	BYTE EXTERNAL(30)		153	
8			IREGBIT.	LITERALLY			
8			IREGCOUNT.	LITERALLY			
10	0000H	1	IRET	BYTE EXTERNAL(48)		153	
10	0000H	1	JA	BYTE EXTERNAL(9)		153	
10	0000H	1	JAE.	BYTE EXTERNAL(13)		153	
10	0000H	1	JG	BYTE EXTERNAL(14)		153	
10	0000H	1	JL	BYTE EXTERNAL(19)		153	
10	0000H	1	JMP.	BYTE EXTERNAL(35)		153	
10	0000H	1	JMPF	BYTE EXTERNAL(41)		153	
10	0000H	1	JMPS	BYTE EXTERNAL(53)		53	
10	0000H	1	JNBE	BYTE EXTERNAL(28)		53	
10	0000H	1	JNE.	BYTE EXTERNAL(26)		53	
10	0000H	1	JO	BYTE EXTERNAL(22)		153	
3			LAB.	LITERALLY	344 368		
10	0000H	1	LAHF	BYTE EXTERNAL(24)		153	
			LAST	BUILTIN	292		
7			LEFTBRACKET. . . .	LITERALLY			
226	0000H	2	LENGTH	WORD MEMBER(SYMB)		227	
177	0003H	2	LENGTH	WORD MEMBER(SYMBHEAD)			
154	0003H	2	LENGTH	WORD MEMBER(SORTSYM)			
154	0003H	2	LENGTH	WORD MEMBER(ALPHASYM)			
230	0000H	2	LENGTH	WORD MEMBER(SYMB)		231	
193	0003H	2	LENGTH	WORD MEMBER(SYMB)			
372	0003H	2	LENGTH	WORD MEMBER(SYMB)			
328	0003H	2	LENGTH	WORD MEMBER(X)			
10	0000H	1	LES.	BYTE EXTERNAL(33)		153	
32	0000H		LETTER	PROCEDURE BYTE EXTERNAL(62) STACK=0000H			
2			LF	LITERALLY	162 293		
245	0008H	1	LG	BYTE PARAMETER AUTOMATIC	246 247		
233	0003H	1	LG	BYTE PARAMETER AUTOMATIC	234 235		
208	0008H	1	LG	BYTE PARAMETER AUTOMATIC	209 210		
176	000CH	1	LG	BYTE PARAMETER AUTOMATIC	177 178 180 182		
221	0008H	1	LG	BYTE PARAMETER AUTOMATIC	222 223		
237	0006H	1	LG	BYTE PARAMETER AUTOMATIC	238 239 241 242		
167	0006H	1	LG	BYTE PARAMETER AUTOMATIC	168 171		
172	000CH	1	LG	BYTE PARAMETER AUTOMATIC	193 194 199 203 204 205		

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212	0008H	1	LG	BYTE PARAMETER AUTOMATIC	213	214						
320	0006H	1	LG	BYTE PARAMETER AUTOMATIC	321	322						
2			LIT.	LITERALLY	2	3	4	5	6	7	8	9
10	0000H	1	LOCK	BYTE EXTERNAL(37)	153							
10	0000H	1	LOOPE.	BYTE EXTERNAL(54)	153							
10	0000H	1	LOOPNE	BYTE EXTERNAL(11)	153							
10	0000H	1	LOOPZ.	BYTE EXTERNAL(17)	153							
96	0000H	1	MAKEERTEXT. . . .	BYTE ARRAY(1) EXTERNAL(99)								
	0000H		MEMORY	BYTE ARRAY(0)	153							
97	0000H		MON1	PROCEDURE EXTERNAL(105) STACK=0000H								
100	0000H		MON2	PROCEDURE BYTE EXTERNAL(106) STACK=0000H								
10	0000H	1	MOV.	BYTE EXTERNAL(46)	153							
10	0000H	1	MOVS	BYTE EXTERNAL(3)	153							
10	0000H	1	MOVSB.	BYTE EXTERNAL(5)	153							
10	0000H	1	MUL.	BYTE EXTERNAL(42)	153							
53	0000H	2	N.	WORD PARAMETER	54							
50	0000H	2	N.	WORD PARAMETER	51							
47	0000H	1	N.	BYTE PARAMETER	48							
44	0000H	1	N.	BYTE PARAMETER	45							
26	0000H	1	N.	BYTE PARAMETER	27							
14	0000H	2	N.	WORD PARAMETER	15							
17	0000H	1	N.	BYTE PARAMETER	18							
3			NEGLECTED.	LITERALLY								
192	00B7H	153	NEW.	PROCEDURE BYTE STACK=0014H		210	214	247				
237	01FEH	52	NEWCHBODY.	PROCEDURE BYTE PUBLIC STACK=000EH								
245	0232H	26	NEWCHNAME.	PROCEDURE BYTE PUBLIC STACK=001EH								
212	016BH	47	NEWMACRO	PROCEDURE BYTE PUBLIC STACK=001EH								
208	0150H	27	NEWSYMBOL.	PROCEDURE BYTE PUBLIC STACK=001EH								
250	0094H	2	NEXT	WORD	285	287						
193	0000H	2	NEXT	WORD MEMBER(SYMB)	200							
177	0000H	2	NEXT	WORD BASED(CURRENTPT)	138							
154	0000H	2	NEXT	WORD MEMBER(SORTSYN)	266	285						
154	0000H	2	NEXT	WORD MEMBER(ALPHASYN)	271	354						
372	0000H	2	NEXT	WORD MEMBER(SYMB)	376							
372	0000H	2	NEXT	WORD MEMBER(CODM)	378							
177	0000H	2	NEXT	WORD MEMBER(SYMBHEAD)								
323	0000H	2	NEXT	WORD MEMBER(X)								
4			NIL.	LITERALLY								
96	0000H	1	NO	BYTE EXTERNAL(39)								
8			NOOVERCOUNT. . . .	LITERALLY								
8			NOOVERRIDEBIT. . .	LITERALLY								
9			NULL	LITERALLY	360							
3			NUMBER	LITERALLY	348	36						
7			OAND	LITERALLY								
7			OEQ.	LITERALLY								
226	0006H	2	OFFSET	WORD MEMBER(SYMB)								
193	0007H	2	OFFSET	WORD MEMBER(SYMB)								
177	0009H	2	OFFSET	WORD MEMBER(SYMBHEAD)								
372	0009H	2	OFFSET	WORD MEMBER(SYMB)								
154	0009H	2	OFFSET	WORD MEMBER(SORTSYN)								
154	0009H	2	OFFSET	WORD MEMBER(ALPHASYN)								
230	0006H	2	OFFSET	WORD MEMBER(SYMB)								
323	0009H	2	OFFSET	WORD MEMBER(X)	334							
7			OGE.	LITERALLY								
7			OGT.	LITERALLY								
7			OLAST.	LITERALLY								
7			OLE.	LITERALLY								

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7		OLENGTH.	LITERALLY						
7		OLT.	LITERALLY						
7		OMOD	LITERALLY						
7		ONE.	LITERALLY						
7		ONOT	LITERALLY						
7		OOFFSET.	LITERALLY						
7		OOR.	LITERALLY						
96	0000H	1 OPENERRTEXT. . . .	BYTE ARRAY(1) EXTERNAL(96)						
124	0000H	OPENFILE	PROCEDURE BYTE EXTERNAL(118) STACK=0000H						
73	0000H	OPENHEX.	PROCEDURE EXTERNAL(77) STACK=0000H						
71	0000H	OPENINCLUDE. . . .	PROCEDURE EXTERNAL(76) STACK=0000H						
75	0000H	OPENPRINT.	PROCEDURE EXTERNAL(78) STACK=0000H						
127	0000H	OPENROFILE	PROCEDURE BYTE EXTERNAL(119) STACK=0000H						
69	0000H	OPENSOURCE	PROCEDURE EXTERNAL(75) STACK=0000H						
77	0000H	OPENSYMBOL	PROCEDURE EXTERNAL(79) STACK=0000H						
8		OPERANDSTRUC . . .	LITERALLY						
3		OPERATOR	LITERALLY						
7		OPTR	LITERALLY						
7		OSEG	LITERALLY						
7		OSHL	LITERALLY						
7		OSHORT	LITERALLY						
7		OSHR	LITERALLY						
7		OTYPE.	LITERALLY						
10	0000H	1 OUT.	BYTE EXTERNAL(51)	153					
155	0000H	36 OUTBYT	PROCEDURE STACK=0008H	292	293	309	323	336	343
320	043DH	32 OUTBYTES	PROCEDURE STACK=0010H	335	337	342	345	347	349
291	034CH	17 OUTCRLF.	PROCEDURE STACK=000CH	303	333	350	357	365	367
56	0000H	OUTHEXBYTE	PROCEDURE EXTERNAL(70) STACK=0000H						
59	0000H	OUTPRINTBYTE . . .	PROCEDURE EXTERNAL(71) STACK=0000H						
62	0000H	OUTSYMBOLBYTE. . .	PROCEDURE EXTERNAL(72) STACK=0000H			165	314	316	363
20	0000H	OUTTEXT.	PROCEDURE EXTERNAL(58) STACK=0000H			176			
153	0084H	2 OVERFLOWLIMIT. .	WORD	194	239	379			
7		OXOR	LITERALLY						
327	0004H	2 P.	WORD PARAMETER AUTOMATIC	328	329	330	332	334	337
320	0004H	2 P.	WORD PARAMETER AUTOMATIC	321	323	324			
96	0000H	1 PAGE1EXT	BYTE ARRAY(1) EXTERNAL(91)						
96	0000H	1 PARERRTEXT	BYTE ARRAY(1) EXTERNAL(95)						
96	0000H	1 PASSOTEXT.	BYTE ARRAY(1) EXTERNAL(103)						
96	0000H	1 PASS1TEXT.	BYTE ARRAY(1) EXTERNAL(104)						
6		PCODEMACRO	LITERALLY						
6		PCSEG.	LITERALLY						
6		PDB.	LITERALLY						
6		PDBIT.	LITERALLY						
6		PDD.	LITERALLY						
6		PDSEG.	LITERALLY						
6		PDW.	LITERALLY						
6		PEJECT	LITERALLY						
6		PEND	LITERALLY						
6		PENDIF	LITERALLY						
6		PENDM.	LITERALLY						
6		PEQU	LITERALLY						
6		PESEG.	LITERALLY						
6		PIF.	LITERALLY						
6		PIFLIST.	LITERALLY						
6		PINCLUDE	LITERALLY						
6		PLIST.	LITERALLY						
6		PMODRM	LITERALLY						

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6			PNOIFLIST.	LITERALLY	
6			PNOLIST.	LITERALLY	
6			PNOSEGFIX.	LITERALLY	
10	0000H	1	POP.	BYTE EXTERNAL(43)	153
10	0000H	1	POPF.	BYTE EXTERNAL(49)	153
6			PORG.	LITERALLY	
6			PPAGESIZE.	LITERALLY	
6			PPAGEWIDTH.	LITERALLY	
6			PRB.	LITERALLY	
6			PRELB.	LITERALLY	
6			PRELW.	LITERALLY	
9			PRINTER.	LITERALLY	306
327	045DH	96	PRINTSYMB.	PROCEDURE STACK=0016H	353
295	035DH	124	PRINISYMBOLS.	PROCEDURE STACK=001AH	364 366 368
2			PROC.	LITERALLY	11 14 35 38 47 50 53 56 59 62 65
					67 69 71 73 75 77 79 81 83 85 87 89 91 94
					155 167 176 192 208 212 221 225 229 233 237 245 291 295
					297 320 327 359 370
6			PRS.	LITERALLY	
6			PRW.	LITERALLY	
6			PSEGFIX.	LITERALLY	
3			PSEUDO.	LITERALLY	
6			PSINFORM.	LITERALLY	
6			PSSEG.	LITERALLY	
167	0004H	2	PT.	WORD PARAMETER AUTOMATIC	168 172
26	0000H	2	PT.	WORD PARAMETER	27
176	000AH	2	PT1.	WORD PARAMETER AUTOMATIC	177 178 182
192	000AH	2	PT1.	WORD PARAMETER AUTOMATIC	193 199 204
192	0003H	2	PT2.	WORD PARAMETER AUTOMATIC	193 199
176	0008H	2	PT2.	WORD PARAMETER AUTOMATIC	177 184
192	0004H	2	PT3.	WORD PARAMETER AUTOMATIC	193 202
176	0006H	2	PT3.	WORD PARAMETER AUTOMATIC	177 178
6			PTITLE.	LITERALLY	
237	0004H	2	PTR.	WORD PARAMETER AUTOMATIC	238 241
10	0000H	1	PUSH.	BYTE EXTERNAL(0)	153
10	0000H	1	PUSHF.	BYTE EXTERNAL(4)	153
5			RAH.	LITERALLY	
5			RAL.	LITERALLY	
5			RAX.	LITERALLY	
5			RBH.	LITERALLY	
5			RBL.	LITERALLY	
5			RBP.	LITERALLY	
5			RBX.	LITERALLY	
5			RCH.	LITERALLY	
5			RCL.	LITERALLY	
5			RCS.	LITERALLY	
5			RCX.	LITERALLY	
5			RDH.	LITERALLY	
5			RDI.	LITERALLY	
5			RDL.	LITERALLY	
5			RDS.	LITERALLY	
5			RDX.	LITERALLY	
109	0000H		READCONSOLE.	PROCEDURE BYTE EXTERNAL(112) STACK=0000H	
136	0000H		READRECORD.	PROCEDURE BYTE EXTERNAL(122) STACK=0000H	
2			REENT.	LITERALLY	
3			REG.	LITERALLY	
10	0000H	1	REPZ.	BYTE EXTERNAL(12)	153

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10	0000H	1	REPZ	BYTE EXTERNAL(1)	153				
5			RES.	LITERALLY					
233	0004H	2	RESULT	WORD PARAMETER AUTOMATIC	234	235			
221	0004H	2	RESULT	WORD PARAMETER AUTOMATIC	222	223			
10	0000H	1	RET.	BYTE EXTERNAL(39)	153				
213	0090H	2	RETP.	WORD	213	214	216		
208	0004H	2	RETURNPT	WORD PARAMETER AUTOMATIC	209	210			
245	0004H	2	RETURNPTR.	WORD PARAMETER AUTOMATIC	246	247			
81	0000H		REWINDSOURCE	PROCEDURE EXTERNAL(81) STACK=0000H					
7			RIGHTBRACKET	LITERALLY					
5			RSI.	LITERALLY					
5			RSP.	LITERALLY					
5			RSS.	LITERALLY					
44	0000H	2	S.	WORD PARAMETER	45				
17	0000H	2	S.	WORD PARAMETER	18				
10	0000H	1	SAR.	BYTE EXTERNAL(34)	153				
176	0056H	97	SEARCH	PROCEDURE BYTE STACK=0014H	223	235			
8			SEGBIT.	LITERALLY					
8			SEGMCOUNT.	LITERALLY					
230	0004H	2	SEGMENT.	WORD MEMBER(SYMB)					
226	0004H	2	SEGMENT.	WORD MEMBER(SYMB)					
193	0007H	2	SEGMENT.	WORD MEMBER(SYMB)					
177	0007H	2	SEGMENT.	WORD MEMBER(SYMBHEAD)					
154	0007H	2	SEGMENT.	WORD MEMBER(SORTSYN)					
154	0007H	2	SEGMENT.	WORD MEMBER(ALPHASYN)					
372	0007H	2	SEGMENT.	WORD MEMBER(SYMB)					
328	0007H	2	SEGMENT.	WORD MEMBER(X)					
8			SEGTYPEBIT	LITERALLY					
3			SEGTYPECOUNT	LITERALLY					
121	0000H		SELECTDISK	PROCEDURE EXTERNAL(117) STACK=0000H					
147	0000H		SETDMAADDRESS.	PROCEDURE EXTERNAL(126) STACK=0000H					
230	0003H	1	SFLAG.	BYTE MEMBER(SYMB)					
226	0003H	1	SFLAG.	BYTE MEMBER(SYMB)					
193	0006H	1	SFLAG.	BYTE MEMBER(SYMB)					
177	0006H	1	SFLAG.	BYTE MEMBER(SYMBHEAD)					
154	0006H	1	SFLAG.	BYTE MEMBER(SORTSYN)					
154	0006H	1	SFLAG.	BYTE MEMBER(ALPHASYN)					
372	0006H	1	SFLAG.	BYTE MEMBER(SYMB)					
328	0006H	1	SFLAG.	BYTE MEMBER(X)					
			SIZE	BUILTIN	375				
193	0002H	1	SLNGTH.	BYTE MEMBER(SYMB)	203				
177	0002H	1	SLNGTH.	BYTE MEMBER(SYMBHEAD)		180			
154	0002H	1	SLNGTH.	BYTE MEMBER(SORTSYN)	255				
154	0002H	1	SLNGTH.	BYTE MEMBER(ALPHASYN)		256			
372	0002H	1	SLNGTH.	BYTE MEMBER(CODM)					
372	0002H	1	SLNGTH.	BYTE MEMBER(SYMB)					
328	0002H	1	SLNGTH.	BYTE MEMBER(X)	332	337			
252	0000H	1	SORTNAME	BYTE BASED(SORTNAMEPTR) ARRAY(1)		258	260		
252	0096H	2	SORTNAMEPTR.	WORD	252	253	258	260	
154	0000H	12	SORTSYN.	STRUCTURE BASED(SORTSYMPTR)		255	266	267	285
249	024CH	68	SORTSYMBOLS.	PROCEDURE STACK=000AH	362				
154	008AH	2	SORTSYMPTR	WORD	154	253	255	266	267 283 284 285 287
229	0004H	2	SOURCE	WORD PARAMETER AUTOMATIC	230	231			
2			SPACE.	LITERALLY	309	336	343		
3			SPEC	LITERALLY					
10	0000H	1	STI.	BYTE EXTERNAL(44)	153				
233	0006H	2	STRADR	WORD PARAMETER AUTOMATIC	234	235			

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10	0000H	1	XCHG	BYTE EXTERNAL(38)	153
10	0000H	1	XLAT	BYTE EXTERNAL(52)	153
273	00A8H	1	Y.	BYTE 300 308 313 315	
96	0000H	1	YES.	BYTE EXTERNAL(88)	

MODULE INFORMATION:

CODE AREA SIZE = 0536H 1334D
CONSTANT AREA SIZE = 009AH 154D
VARIABLE AREA SIZE = 00A6H 174D
MAXIMUM STACK SIZE = 001EH 30D
946 LINES READ
0 PROGRAM ERROR(S)

END OF PL/M-86 COMPILATION

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